

SCHOOL MANAGEMENT SYSTEM (EDUEASY): CORE

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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JUDUL: SCHOOL MANAGEMENT SYSTEM (EDUEASY): CORE

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SCHOOL MANAGEMENT SYSTEM (EDUEASY): CORE

DATU MOHD JUR AMIZAN BIN DATU RAIMAN

This report is submitted in partial fulfillment of the requirements for the Bachelor of
Computer Science (Database Management)


FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

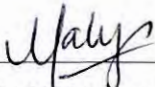
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DECLARATION

I hereby declare that this project report entitle
MULTIPURPOSE SCHOOL MANAGEMENT SYSTEM (EDUEASY)

Is written by me and is my own effort and that no part has been plagiarized
without citations.

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DEDICATION

For my beloved parents that raised me with all their heart, my family who supported my studies, teachers, lecturers, friends and foes. This is for three years of laugh, tears, sweat, success and failure.

ABSTRACT

EduEasy system is separated into 4 subsystems and this document describes the development progress for the Core of the EduEasy system. The project starts out in action to digitalize on-paper businesses which are currently used practiced in the education section nowadays. EduEasy took the similarities of the school management system in Malaysia and packs it up in a versatile and flexible school management system. EduEasy is a multiple school management system developed in HTML and PHP, with using an integrated Oracle database.

ABSTRAK

Sistem EduEasy terbahagi kepada 4 subsistem dan dokumen ini menerangkan tentang perkembangan dan pembangunan perisian Teras kepada EduEasy. Projek ini bermula dengan tujuan untuk mendigitalkan urusan yang menggunakan kertas, yang kini menjadi kebiasaan di mana-mana institut pendidikan di Malaysia. EduEasy dihasilkan dengan menggabungkan persamaan antara sistem persekolahan di Malaysia dan menjadikannya sistem yang serba boleh dan fleksibel. EduEasy dibina dengan HTML dan PHP, dengan mengintegrasikan perisian pangkalan data Oracle.

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CHAPTER I

INTRODUCTION

Subject Background

The technology always finds its way to penetrate and simplify our way of life. Hence, it had change the way the humanity deals with problems and hustles. It may started as a simple discipline practiced in a small group, such as filling the registration form get hired, but this disciplines then bloomed into structures of system that need effort to maintain and keep track on.

The education system also has been using this structure for a while. There's always standards and requirement need to be fulfilled, whether it was by the school administration or by the government itself. The school administration will always have to keep track and keep note on their human resources, surroundings, and the most important, the students. At the same time, the ministries also need to know the exact statistics and insight of what is happening to the education system they're currently practicing. This need for management support help the rise of a school management system type generally for multiple education institutes, built by their resources, and for their own management purposes.

However, this existing systems can be improved and enhance. There are still rooms of improvement, especially on how the ministry and the school managerial

1.4 Project Scope

1.4.1 System Scope

a) Capability of Handling Multiple School

The system are capable of handling users from multiple school, and point them back to see and experience only what the school they are currently studying/working want to inform. The user will not have the authority to read of other school's matters unless the information was designed to be publicly informed.

b) School Geocoding

The system is capable of reversing the school's address and pinpoint its location on the map. This function was developed specially for the visitors of the system, whereas they will can search for school and look up for its information.

1.4.2 Target User

a) System Administrators

The system administrators (EduEasy Admins) will be in charge of managing the schools registered to the system. They will also have the capability to conduct regular backup on the system, as well as posting information regarding the system downtime.

b) School Representatives

The school representatives such as staffs, teachers, and parents will also have the capability to login to the system, then redirect to the customized main page of their standings. This is to ensure that these users will always have the information needed from the main page, as well to have better navigation in the system flow.

1.5 Project Significance

The system will conduct the information transfers of multiple schools at once, and this will create a standardize template in the schools registered. By using the same template of information for the schools, a student transfer between registered schools will easier, literally with “a click of button”.

What make the system extra special is that this system is not the ordinary School Management System, where it is above the system – A system that controls the school management system. By controlling this management system, each school management boards can customize and manage their school according to their requirement, but at the same time doing the management process according the template set by the system. The system is developed to be flexible and adaptive to the Malaysia education standards.

1.6 Expected Output

At the end of project, the system will be a flexible system that can be used for local education system, and for foreign implementations.

1.7 Conclusion

The current system used by the schools is running independently and privately. Some information may be hidden and not be used for later occasions. The conventional way such as form filling is still widely used and need improvement. On the next chapter, specific explanations about the system and its methodology will be described.

CHAPTER II

LITERATURE REVIEW AND METHODOLOGY

2.1 Introduction

The purpose of literature review is to give a summary of facts and findings regarding the project. Based on previous study, research, references, case study and field work, this chapter will explain more on why EduEasy can replace and improve the existing and currently implemented systems used in the Malaysia's education system generally. This chapter also describes the methodology used to develop MSMS, and why it was chosen.

2.2 Facts and Findings

2.2.1 Domain

The project is developed with the thought of improving the current implemented system, either digital or conventional in many schools these days. All schools in Malaysia are regulated to follow and abide the guide proposed by the government. However, even to this day, no party has come to the idea to develop an information system that makes use of this standards and requirement. This could consider as a loss because this standards can be use efficiently if a system was developed to enforce this guidelines.

EduEasy was developed to use these standards as template so that any school in Malaysia can use this template and still following the standard of the national education system.

2.2.2 Existing System

a) Claroline.net

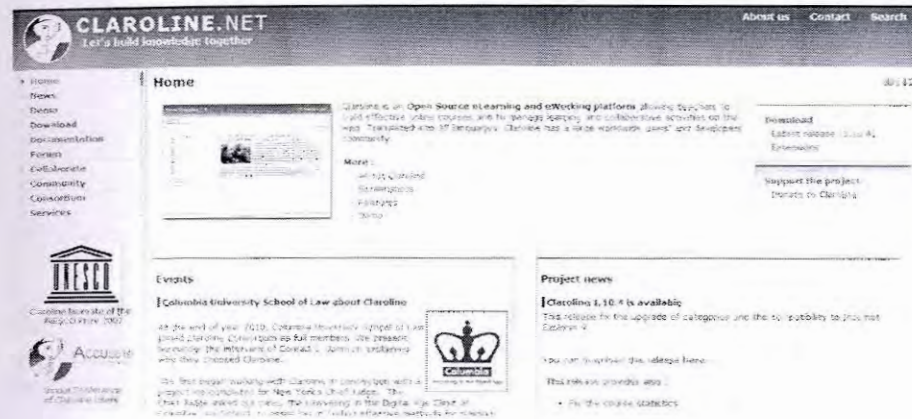


Figure 2.1: Claroline.net main website



Figure 2.2: UTeM's ULearn Elearning Portal

Claroline is an Open Source eLearnin and eWorking platform allowing teachers to build effective online courses and to manage learning and collaborative activities on the web. Initiated in 2001 by the UCL (Catholic University of Louvain,

Belgium), the system has been used by many private or smaller institutions in the world, especially because the platform is open source and free. To be exact, Universiti Teknikal Malaysia Melaka's online student portal such as Ulearn (<http://ulearn.utem.edu.my>) and eftmk (<http://eftmk.utem.edu.my>) also used the platform to conduct the eLearning environment in the college.

b) QuickSchools.com

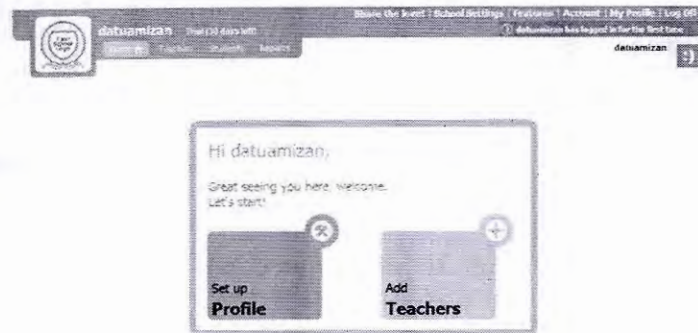


Figure 2.3: Quickschools.com main interface

Quickshool.com took the online management system to a standard like no other. The system didn't need any installation because all the information transfer was done online and on their server. The system is developed to cater small school organization, and filled with friendly features that could attract the children and kids as this system also cater the management for kindergarten.



Figure 2.4: Profile page at Quickschools.com

2.2.2.1 Features Comparison

Table 2.1 represents the comparison of the available system at the time (Claroline, Quickschool) with EduEasy. The aspect of comparison includes installation, parent login features, subject and courses features, financial management, multiple organization features, attendance management features, and co-curricular activities management.

For the installation aspects, both EduEasy and Quickschool is a ready-to-use system while Claroline need to be set up by the local management personnel. EduEasy and Quickschool also come in similar in the aspects of Subject/Courses features, Financial Management, and Multiple Organization Management but EduEasy have two extra features that excel compared to Claroline and Quickschool.

EduEasy features the Attendance Management and Co-curricular Activities Management that are normally not included in similar online school management services in the vast market of the internet right now. These features gave advantage to EduEasy to attract clients that need system versatility and flexibility.

Table 2.1: Comparison of Claroline, Quickschool and EduEasy

System Features	Claroline	Quickschool	EduEasy
Installation	Yes	No	No
Parents Login	No	Yes	Yes
Subjects/Courses	Yes	Yes	Yes
Financial Management	No	Yes	Yes
Multiple organization/school	No	Yes	Yes
Attendance Management	No	No	Yes
Co-curricular Activities Management	No	No	Yes

2.2.3 Techniques

a) Client Server architecture

Server is the machine that hosts the information (in the project's case – EduEasy) and shares the information with the clients. As illustrated in Figure 2.6, the minimum amount of two computers will be connected, and the host (server) will be providing the information to the client. The client will request for information from the server, then the server will response to the request with the desired information. In database context, a query request will return a set of results.